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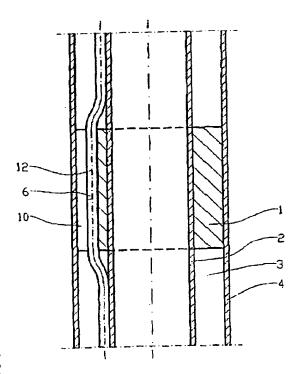
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(54) Title: A CABLE DUCT DEVICE IN A SWELLING PACKER



II-II

(57) Abstract: A cable duct device in a swellable packer (1) of the kind in which the packer (1) is adapted to be able of sealing an annulus (3), and in which the swellable packer (1) is provided with at least one opening (6) therethrough adapted to constitute a duct for a cable (12).

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A. CLASSIFICATION OF SUBJECT MATTER IPC7: E21B 23/06 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI DATA, EPO-INTERNAL C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category* 1-5 X US 6173788 B1 (JEFFREY J. LEMBECKE ET AL), 16 January 2001 (16.01.2001), See whole document 1-5 Х US 3899631 A1 (BILLY E. CLARK), 12 August 1975 (12.08.1975), see wole document US 6135210 A1 (OLEGARIO S. RIVAS), 24 October 2000 1-5 Α (24.10.2000), column 4, line 61 - column 5, line 20 US 2242166 A1 (E. O. BENNETT), 13 May 1941 1-5 Α (13.05.1941), figures 3-4 Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other step when the document is taken alone document of particular relevance: the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is combined with one or more other such documents, such combination "O" document referring to an oral disclosure, use, exhibition or other being obvious to a person skilled in the art document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 18 August 2004 **20** -08- 2004 Name and mailing address of the ISA/ Authorized officer Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Kerstin Waczinska/MN Telephone No. + 46 8 782 25 00 Facsimile No. +46 8 666 02 86

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Information on patent family members

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US	6173788	B1	16/01/2001	GB GB NO NO	2336170 A,B 9907757 D 315437 B 991638 A	13/10/1999 00/00/0000 01/09/2003 08/10/1999
US	3899631	A1	12/08/1975	NONE		
US	6135210	A1	24/10/2000	CA GB GB	2277566 A 2339816 A,B 9915984 D	16/01/2000 09/02/2000 00/00/0000
US	2242166	A1	13/05/1941	NONE		

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